

Title (en)  
SIGNAL TRANSMISSION USING MULTIPLE ANTENNAS

Title (de)  
SIGNALÜBERTRAGUNG MITHILFE MEHRERER ANTENNEN

Title (fr)  
EMISSION DE SIGNAL PAR PLUSIEURS ANTENNES

Publication  
**EP 2179519 B1 20111214 (FR)**

Application  
**EP 08826638 A 20080717**

Priority  
• FR 2008051348 W 20080717  
• FR 0705306 A 20070720

Abstract (en)  
[origin: WO2009013436A2] A radio communication transmitter (EM) comprises at least two antennas (AE1, AE2) for transmitting a signal containing encoded bits which are converted into distributed symbols according to subcarriers and time intervals. The transmitter encompasses a signal splitter (REP) for splitting all the symbols of the signal into as many separate subsets (SEi) of signal symbols as the transmitter has antennas, each subset being allocated to one of the antennas and the combined subsets amounting to all the symbols of the signal. The symbols are split into at least two subsets during a time interval of the signal or for a subcarrier. The antennas each synchronously transmit the subsets of symbols. The subsets of symbols can comprise a number of substantially identical symbols to reduce a difference between peaks of strength and the average strength of the signal transmitted by each antenna.

IPC 8 full level  
**H04B 7/06** (2006.01); **H04L 1/06** (2006.01); **H04L 27/26** (2006.01)

CPC (source: EP US)  
**H04B 7/068** (2013.01 - EP US); **H04B 7/0691** (2013.01 - EP US); **H04L 1/0618** (2013.01 - EP US); **H04L 5/0023** (2013.01 - EP US); **H04L 5/0044** (2013.01 - EP US); **H04L 5/005** (2013.01 - EP US); **H04L 25/0204** (2013.01 - EP US); **H04L 25/0224** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**FR 2919132 A1 20090123; FR 2919132 B1 20110429**; AT E537616 T1 20111215; EP 2179519 A2 20100428; EP 2179519 B1 20111214; ES 2379305 T3 20120424; US 2010290555 A1 20101118; US 8284864 B2 20121009; WO 2009013436 A2 20090129; WO 2009013436 A3 20090423

DOCDB simple family (application)  
**FR 0705306 A 20070720**; AT 08826638 T 20080717; EP 08826638 A 20080717; ES 08826638 T 20080717; FR 2008051348 W 20080717; US 66982908 A 20080717